

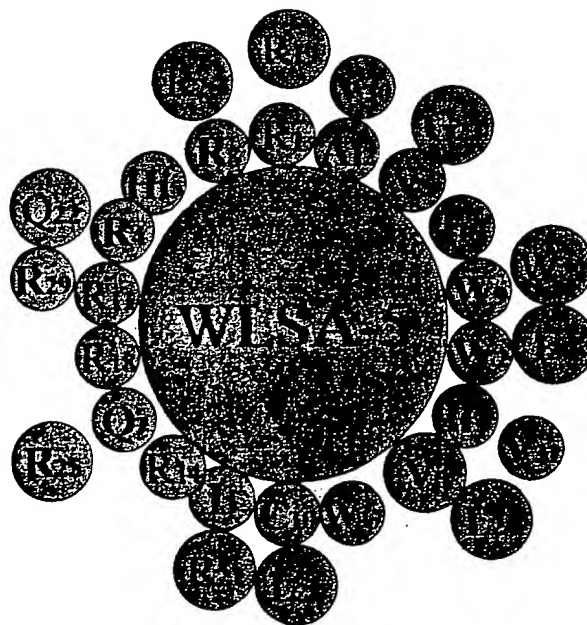
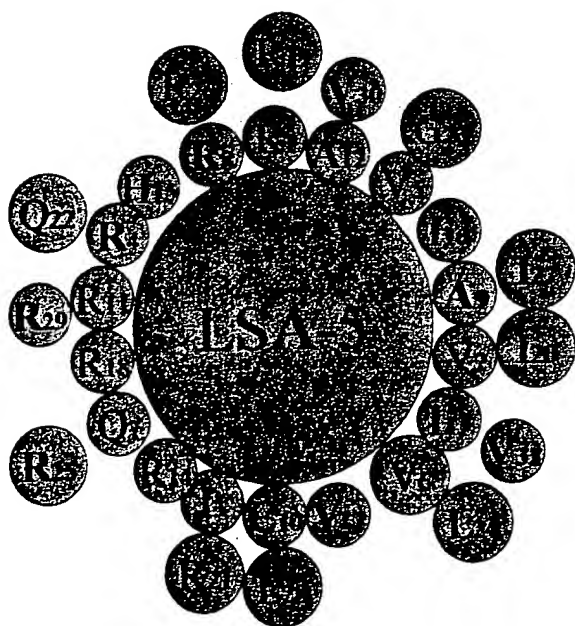
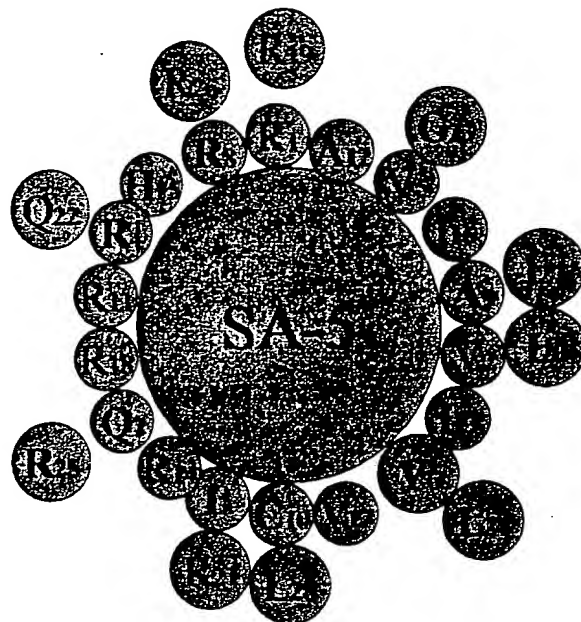
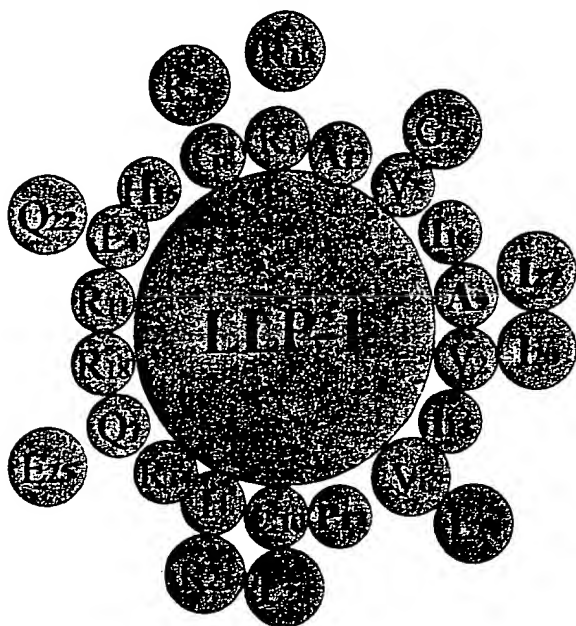
Figure 1

LLP1: R VIEVVQGACRA IRHI PRRIRQGLER I L

SA-5: R VIRVVQRACRA IRHI VRRIRQGLRR I L

LSA-5: R VIRVVQRACRA IRHI VRRIRQGLRR I LRVV

WLSA5:RWIRVVQRWCRAIRHIWRRIRQGLRRWLRVV



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Figure 2

LBU-1
LBU-2
LBU-3
LBU-3.5
LBU-4
WLBU-1
WLBU-2
WLBU-3
WLBU-4

RVVRVRRVRRR(SEQ ID NO:4)
RRVVRVRRVRRVRRVRRVRRR (SEQ ID NO: 5)
VRRVVRVRRVRRVRRVRRVRRVRRVRRR (SEQ ID NO: 6)
RRVVRVRRVRRVRRVRRVRRVRRVRRVRRR (SEQ ID NO:7)
RVVRVRRVRRVRRVRRVRRVRRVRRVRRR (SEQ ID NO:8)
RVVRVRRVRRR (SEQ ID NO:9)
RRVVRVRRVRRVRRVRRVRRVRRVRRR (SEQ ID NO:10)
VRRVVRVRRVRRVRRVRRVRRVRRVRRVRRR (SEQ ID NO:11)
RVVRVRRVRRVRRVRRVRRVRRVRRVRRVRRVRRV (SEQ ID NO:12)

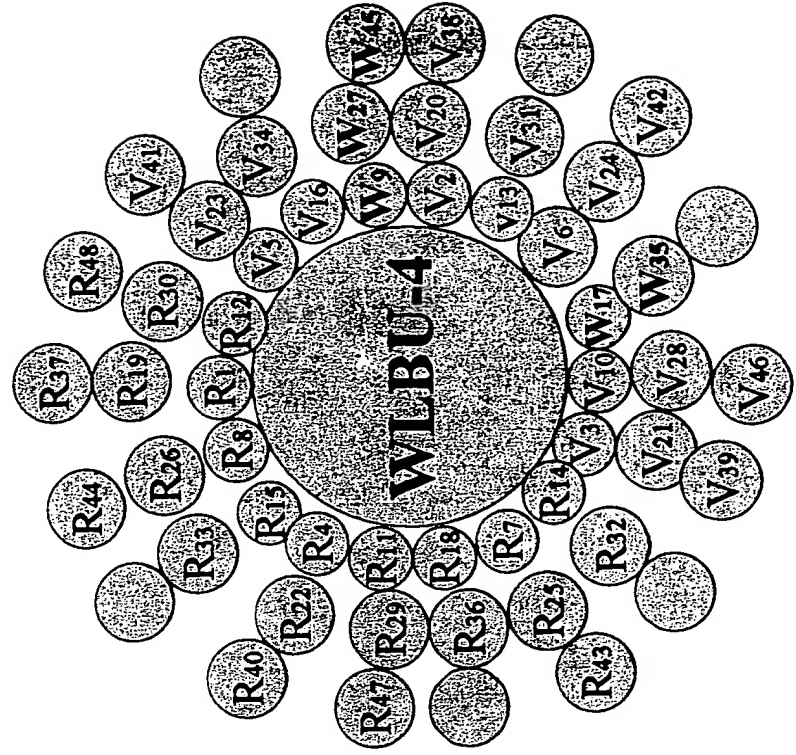
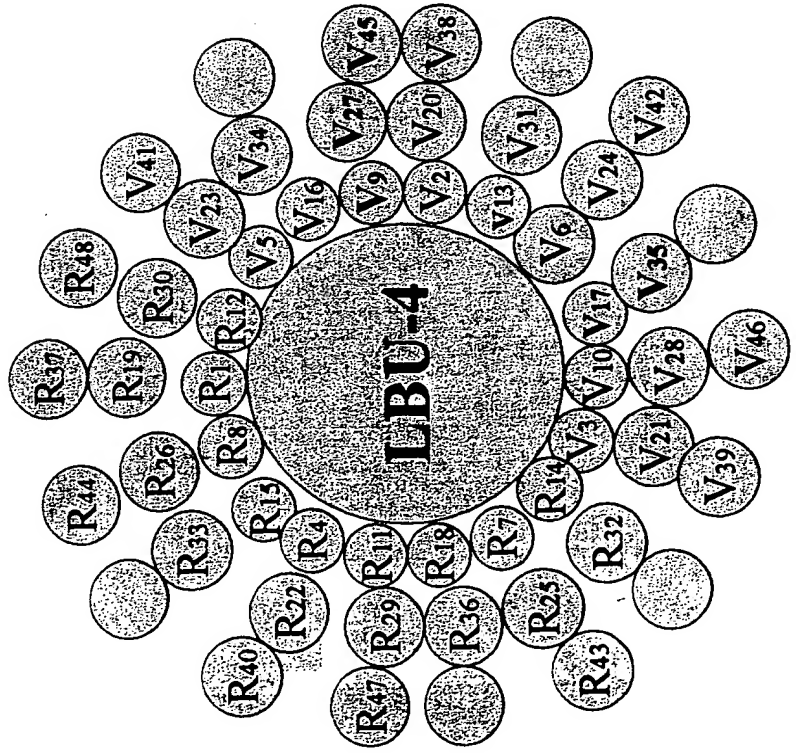


Figure 3. Killing of *P. aeruginosa* by LL37 & WLSA-5 in 10 mM PB

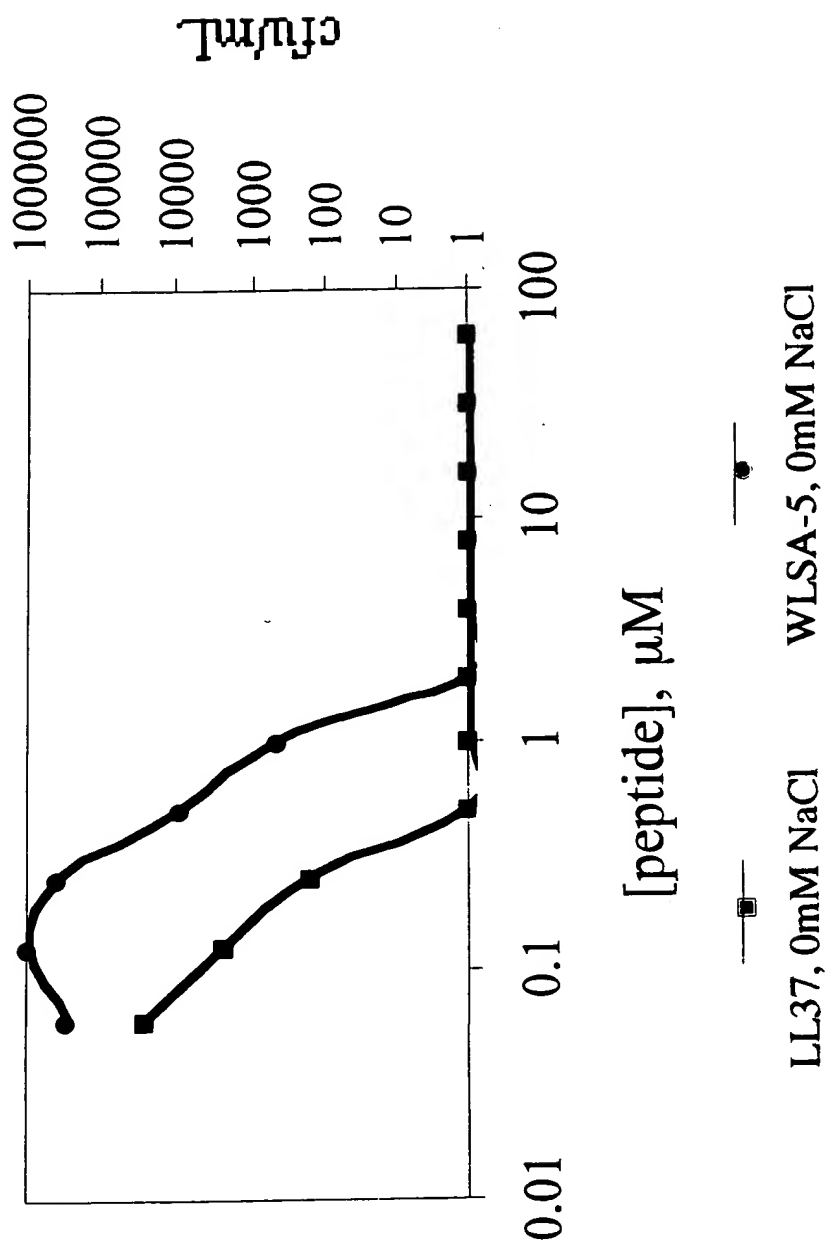


Figure 4. Killing of *S. aureus* by LL37 & WLSA-5 in 10 mM PB

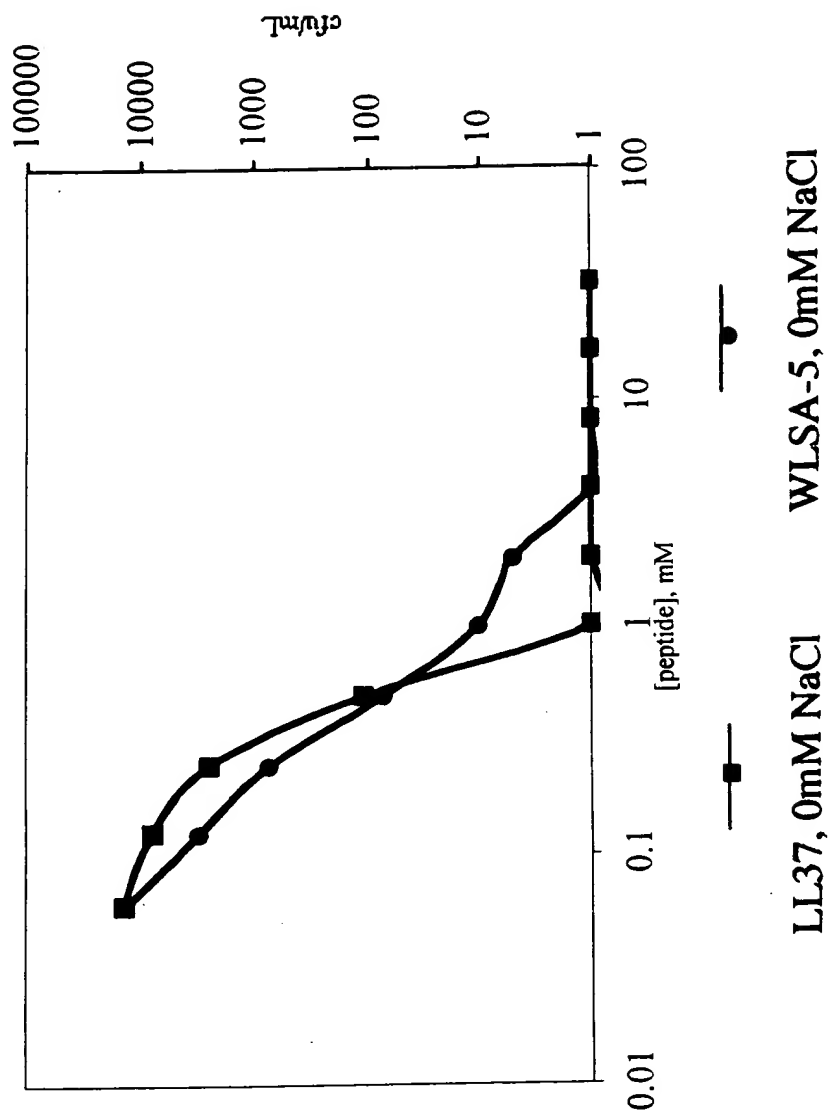


Figure 5. Killing of *P. aeruginosa* by LL37 & WLSA-5 in 10 mM PB plus 150 mM NaCl

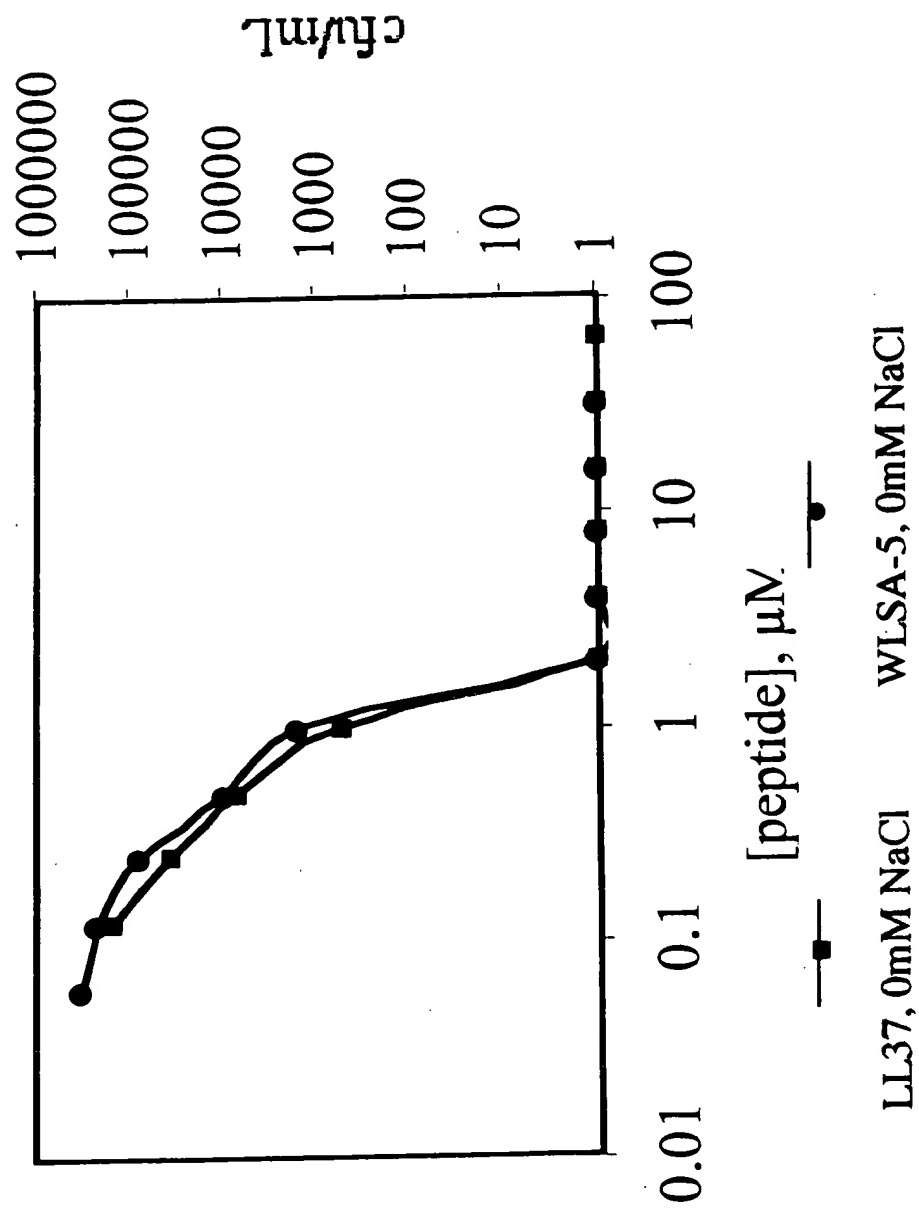


Figure 6. Killing of *S. aureus* by LL37 & WLSA-5 in 10 mM PB plus 150 mM NaCl

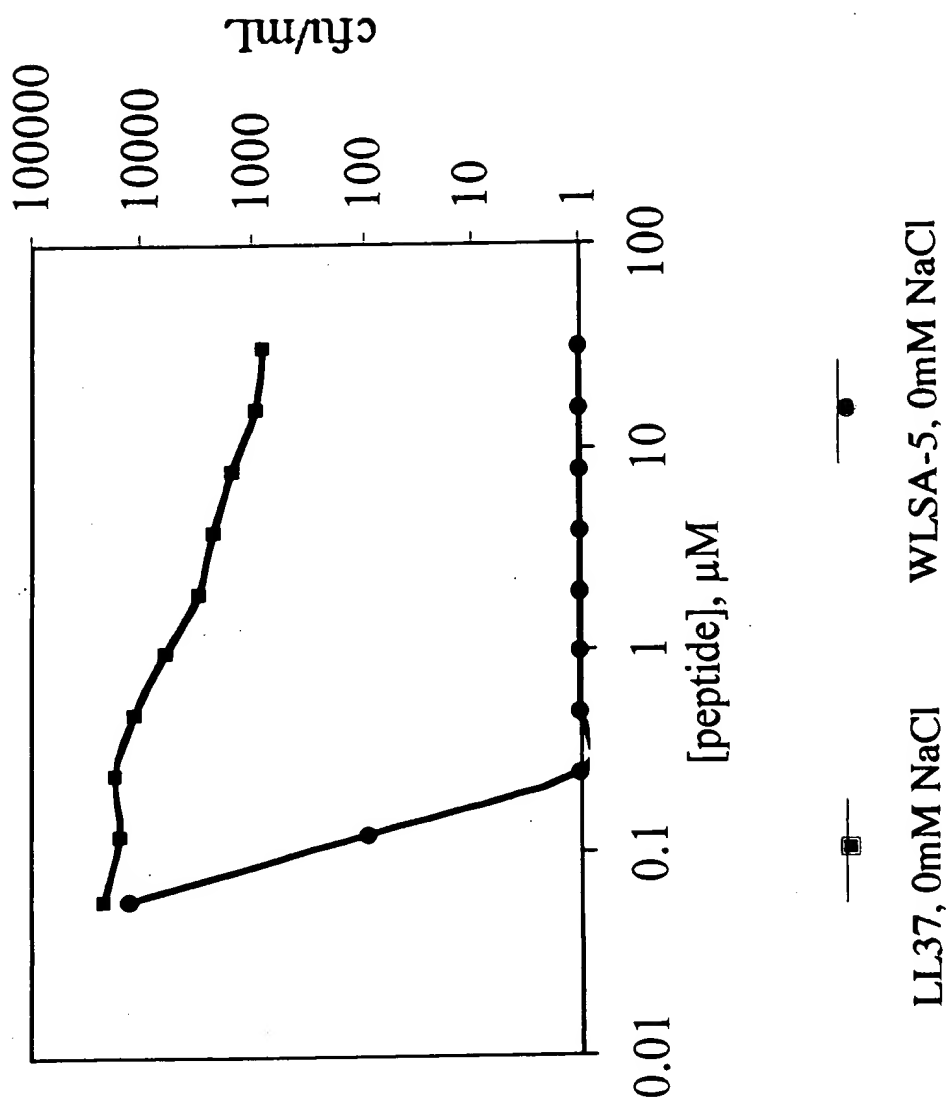


Figure 7. Activity of LSA-5 versus WLSA-5 against *Burkholderia cepacia*

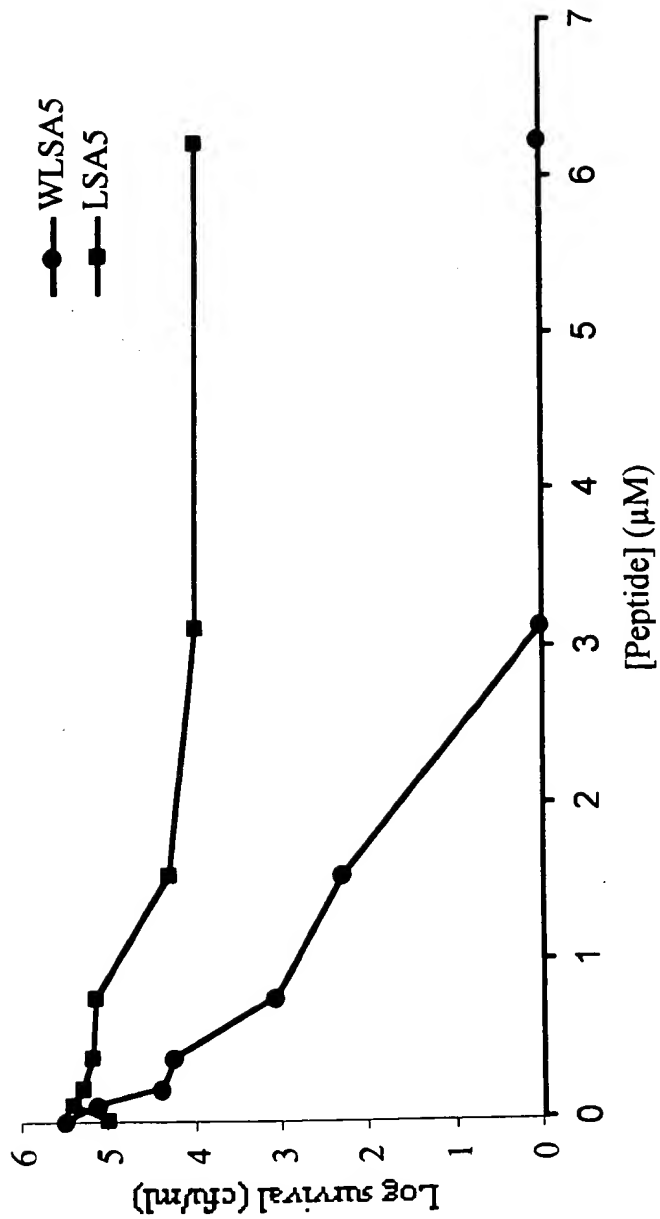


Figure 8. Antibacterial activity of WLSA-5 and the host derived LL37 against 10 different strains of *B. cepacia* representing multiple genomovars.

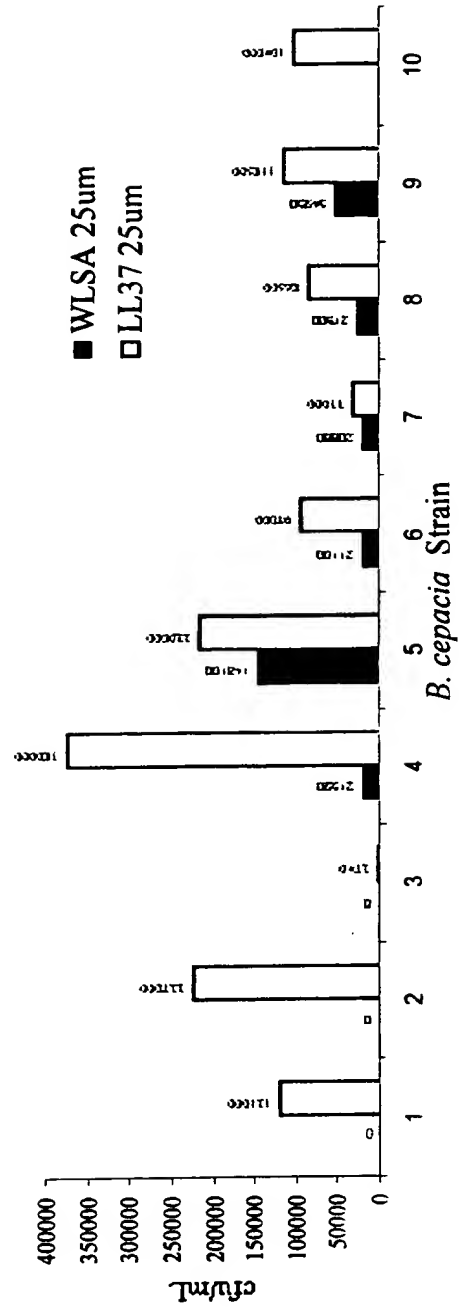


Figure 9. Selective toxicity of WLSA-5 for *P. aeruginosa* bound to CF human bronchial epithelial cells in culture

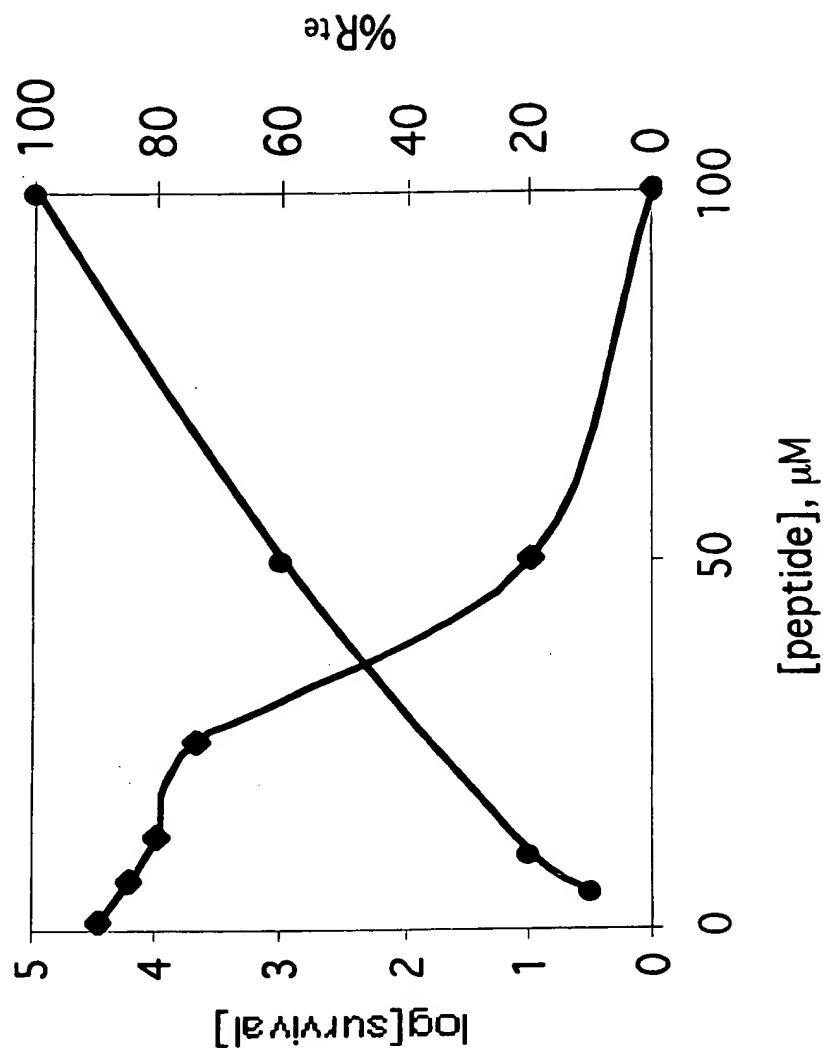


Figure 10. *In vitro* killing of *S. aureus* by WLSA-5 in synovial fluid

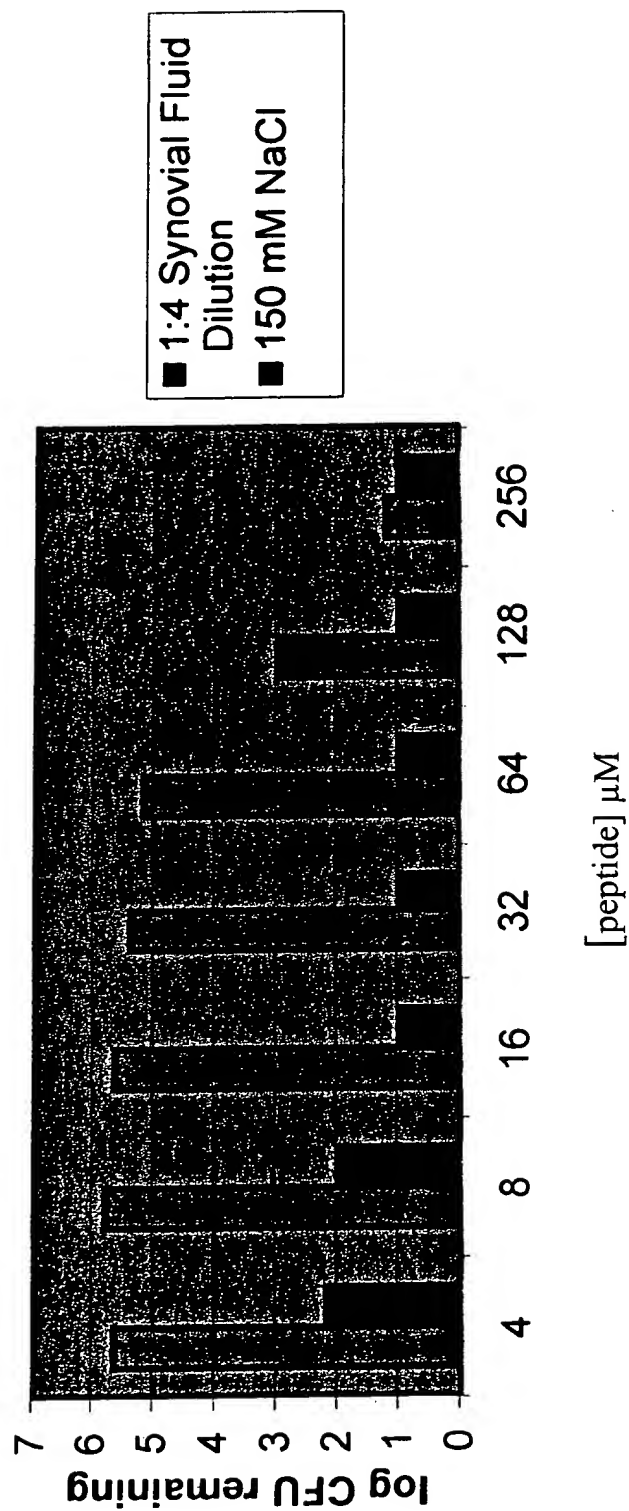


Figure 11. Dose dependent decrease in bacterial killing relative to the untreated control

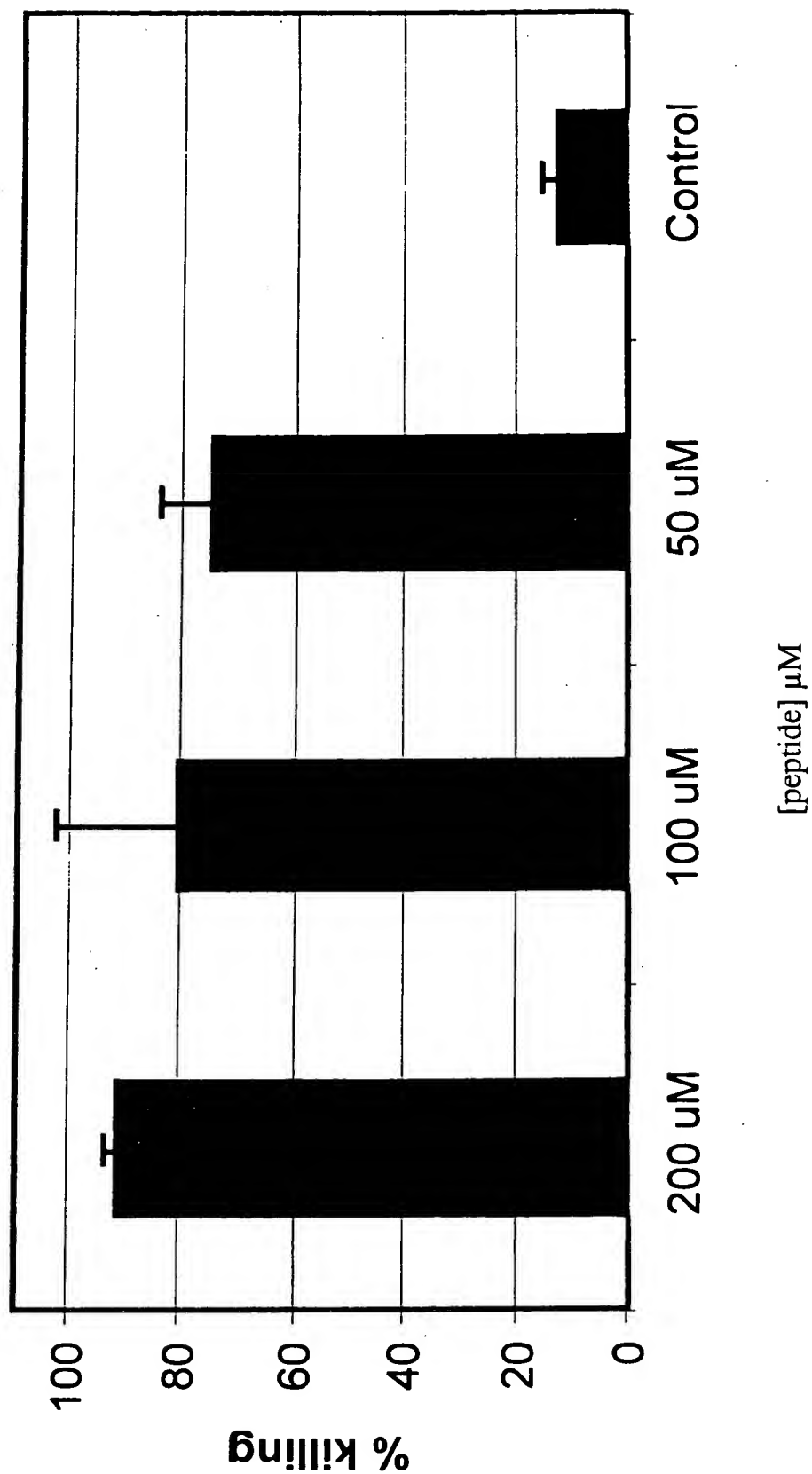


Figure 12. LSA-5/neomycin bacterial killing in rabbit joint model

